To: Dickerson, Dave[dickerson.dave@epa.gov]; Lederer, Dave[Lederer.Dave@epa.gov]
Cc: Ellen Iorio[maryellen.iorio@usace.army.mil]
From: White, Patricia
Sent: Thur 10/5/2017 8:23:08 PM
Subject: Placemat calculation - Aerovox flux estimate
Aerovox placemat flux calc 20171003.xlsx

Hi Dave and Dave,

On the Aerovox interim cap call today, I referenced a "placemat" calculation (one step above a back-of-the-envelope) to estimate total PCB loading from the Aerovox proposed interim cap area to the harbor based on the passive sampler study results. Dan has checked and verified my calculations. The total PCB flux for the interim cap area (as shown in the Draft Comprehensive Plan) comes out to about 5 kg/year. For comparison, Steve Wolf estimated a groundwater flux of ~47 g/year from the Aerovox site into the river (7/6/17 calculation), and the Woods Hole Group (2010) estimated a PCB net flux of 118 g/day out of the harbor at the hurricane barrier, which equates to about 47 kg/year.

This "placemat" estimate is simply intended to inform our conceptual understanding of what is going on – the design team will most likely treat the flux data differently for the interim cap design (to be discussed further at the October 31st working meeting).

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